Part of Paper No. 8

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.
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YUE, Henry
LAL, Preeti
BANDMAN, Olga
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BAUGHN, Mariah R.
LU, Dyung Aina M.
AZIMZAI, Yalda
YANG, Junming

<120> HUMAN HYDROLASE PROTEINS

<130> PF-0634 PCT

<140> To Be Assigned
<141> Herewith

<150> 09/190,937; unassigned; 60/135,519
<151> 1998-11-12; 1998-11-12; 1999-05-21

<160> 35

<170> PERL Program

<210> 1
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<212> PRT
<213> Homo sapiens

<220>
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<400> 1

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Met Lys Ala Trp Gly Thr Val Val Val Thr Leu Ala Thr Leu Met
  1               5                  10                  15
Val Val Thr Val Asp Ala Lys Ile Tyr Glu Leu Cys Glu Leu Ala
             20                  25                  30
Ala Arg Leu Glu Arg Ala Gly Leu Asn Gly Tyr Lys Gly Tyr Gly
             35                  40                  45
Val Gly Asp Trp Leu Cys Met Ala His Tyr Glu Ser Gly Phe Asp
             50                  55                  60
Thr Ala Phe Val Asp His Asn Pro Asp Gly Ser Ser Glu Tyr Gly
             65                  70                  75
Ile Phe Gln Leu Asn Ser Ala Trp Trp Cys Asp Asn Gly Ile Thr
             80                  85                  90
Pro Thr Lys Asn Leu Cys His Met Asp Cys His Asp Leu Leu Asn
             95                 100                 105
Arg His Ile Leu Asp Asp Ile Arg Cys Ala Lys Gln Ile Val Ser
```

```
                110                 115                 120
Ser Gln Asn Gly Leu Ser Ala Trp Thr Ser Trp Arg Leu His Cys
                125                 130                 135
Ser Gly His Asp Leu Ser Glu Trp Leu Lys Gly Cys Asp Met His
                140                 145                 150
Val Lys Ile Asp Pro Lys Ile His Pro
                155
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<210> 2
<211> 285
<212> PRT
<213> Homo sapiens

<220>
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<400> 2

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Met Gly Thr Pro Gly Glu Gly Leu Gly Arg Cys Ser His Ala Leu
  1               5                  10                  15
Ile Arg Gly Val Pro Glu Ser Leu Ala Ser Gly Glu Gly Ala Gly
                 20                  25                  30
Ala Gly Leu Pro Ala Leu Asp Leu Ala Lys Ala Gln Arg Glu His
                 35                  40                  45
Gly Val Leu Gly Gly Lys Leu Arg Gln Arg Leu Gly Leu Gln Leu
                 50                  55                  60
Leu Glu Leu Pro Pro Glu Glu Ser Leu Pro Leu Gly Pro Leu Leu
                 65                  70                  75
Gly Asp Thr Ala Val Ile Gln Gly Asp Thr Ala Leu Ile Thr Arg
                 80                  85                  90
Pro Trp Ser Pro Ala Arg Arg Pro Glu Val Asp Gly Val Arg Lys
                 95                 100                 105
Ala Leu Gln Asp Leu Gly Leu Arg Ile Val Glu Ile Gly Asp Glu
                110                 115                 120
Asn Ala Thr Leu Asp Gly Thr Asp Val Leu Phe Thr Gly Arg Glu
                125                 130                 135
Phe Phe Val Gly Leu Ser Lys Trp Thr Asn His Arg Gly Ala Glu
                140                 145                 150
Ile Val Ala Asp Thr Phe Arg Asp Phe Ala Val Ser Thr Val Pro
                155                 160                 165
Val Ser Gly Pro Ser His Leu Arg Gly Leu Cys Gly Met Gly Gly
                170                 175                 180
Pro Arg Thr Val Val Ala Gly Ser Ser Asp Ala Ala Gln Lys Ala
                185                 190                 195
Val Arg Ala Met Ala Val Leu Thr Asp His Pro Tyr Ala Ser Leu
                200                 205                 210
Thr Leu Pro Asp Asp Ala Ala Ala Asp Cys Leu Phe Leu Arg Pro
                215                 220                 225
Gly Leu Pro Gly Val Pro Pro Phe Leu Leu His Arg Gly Gly Gly
                230                 235                 240
Asp Leu Pro Asn Ser Gln Glu Ala Leu Gln Lys Leu Ser Asp Val
                245                 250                 255
Thr Leu Val Pro Val Ser Cys Ser Glu Leu Glu Lys Ala Gly Ala
                260                 265                 270
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Gly Leu Ser Ser Leu Cys Leu Val Leu Ser Thr Arg Pro His Ser
275 280 285

<210> 3
<211> 331
<212> PRT
<213> Homo sapiens

<220>
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<400> 3
Met Trp Leu Trp Glu Asp Gln Gly Gly Leu Leu Gly Pro Phe Ser
1 5 10 15
Phe Leu Leu Leu Val Leu Leu Leu Val Thr Arg Ser Pro Val Asn
20 25 30
Ala Cys Leu Leu Thr Gly Ser Leu Phe Val Leu Leu Arg Val Phe
35 40 45
Ser Phe Glu Pro Val Pro Ser Cys Arg Ala Leu Gln Val Leu Lys
50 55 60
Pro Arg Asp Arg Ile Ser Ala Ile Ala His Arg Gly Gly Ser His
65 70 75
Asp Ala Pro Glu Asn Thr Leu Ala Ala Ile Arg Gln Ala Ala Lys
80 85 90
Asn Gly Ala Thr Gly Val Glu Leu Asp Ile Glu Phe Thr Ser Asp
95 100 105
Gly Ile Pro Val Leu Met His Asp Asn Thr Val Asp Arg Thr Thr
110 115 120
Asp Gly Thr Gly Arg Leu Cys Asp Leu Thr Phe Glu Gln Ile Arg
125 130 135
Lys Leu Asn Pro Ala Ala Asn His Arg Leu Arg Asn Asp Phe Pro
140 145 150
Asp Glu Lys Ile Pro Thr Leu Arg Glu Ala Val Ala Glu Cys Leu
155 160 165
Asn His Asn Leu Thr Ile Phe Phe Asp Val Lys Gly His Ala His
170 175 180
Lys Ala Thr Glu Ala Leu Lys Lys Met Tyr Met Glu Phe Pro Gln
185 190 195
Leu Tyr Asn Asn Ser Val Val Cys Ser Phe Leu Pro Glu Val Ile
200 205 210
Tyr Lys Met Arg Gln Thr Asp Arg Asp Val Ile Thr Ala Leu Thr
215 220 225
His Arg Pro Trp Ser Leu Ser His Thr Gly Asp Gly Lys Pro Arg
230 235 240
Tyr Asp Thr Phe Trp Lys His Phe Ile Phe Val Met Met Asp Ile
245 250 255
Leu Leu Asp Trp Ser Met His Asn Ile Leu Trp Tyr Leu Cys Gly
260 265 270
Ile Ser Ala Phe Leu Met Gln Lys Asp Phe Val Ser Pro Ala Tyr
275 280 285
Leu Lys Lys Trp Ser Ala Lys Gly Ile Gln Val Val Gly Trp Thr
290 295 300
Val Asn Thr Phe Asp Glu Lys Ser Tyr Tyr Glu Ser His Leu Gly

305 310 315
Ser Ser Tyr Ile Thr Asp Ser Met Val Glu Asp Cys Glu Pro His
320 325 330
Phe

<210> 4
<211> 153
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 4
Met Ala Ala Ala Leu Ala Leu Val Ala Gly Val Leu Ser Gly Ala
1 5 10 15
Val Leu Pro Leu Trp Ser Ala Leu Pro Gln Tyr Lys Lys Lys Ile
20 25 30
Thr Asp Arg Cys Phe His His Ser Glu Cys Tyr Ser Gly Cys Cys
35 40 45
Leu Met Asp Leu Asp Ser Gly Gly Ala Phe Cys Ala Pro Arg Ala
50 55 60
Arg Ile Thr Met Ile Cys Leu Pro Gln Trp Leu Glu Leu Phe Lys
65 70 75
Gly Arg Asp Cys Ile Ile Phe Ile Tyr Glu Ala Pro Thr Pro Ser
80 85 90
Leu Val Ser Ala His Asn Gln Gly Ser Tyr Gln His His Leu Pro
95 100 105
Leu Pro Asp Gly Leu Asp Val His Ile Gln Gly Leu Asp Val Phe
110 115 120
Pro Pro Val Pro Tyr Asp Leu Glu Glu Asp Ala Gly Trp Ser Leu
125 130 135
Leu Pro Trp Gly His Arg Pro Trp Leu Pro Pro Thr Cys Ser Lys
140 145 150
Ser Ser Ser

<210> 5
<211> 571
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1702211CD1

<400> 5
Met Glu Arg Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val
1 5 10 15
Val Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu
20 25 30
Val Ala Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly
35 40 45

```
Arg Gln Val Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe
                 50                  55                  60
Leu Gly Ile Pro Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe
                 65                  70                  75
Ser Ala Pro His Pro Ala Gln Pro Trp Glu Gly Val Arg Asp Ala
                 80                  85                  90
Ser Thr Ala Pro Pro Met Cys Leu Gln Asp Val Glu Ser Met Asn
                 95                 100                 105
Ser Ser Arg Phe Val Leu Asn Gly Lys Gln Gln Ile Phe Ser Val
                110                 115                 120
Ser Glu Asp Cys Leu Val Leu Asn Val Tyr Ser Pro Ala Glu Val
                125                 130                 135
Pro Ala Gly Ser Gly Arg Pro Val Met Val Trp Val His Gly Gly
                140                 145                 150
Ala Leu Ile Thr Gly Ala Ala Thr Ser Tyr Asp Gly Ser Ala Leu
                155                 160                 165
Ala Ala Tyr Gly Asp Val Val Val Val Thr Val Gln Tyr Arg Leu
                170                 175                 180
Gly Val Leu Gly Phe Phe Ser Thr Gly Asp Glu His Ala Pro Gly
                185                 190                 195
Asn Gln Gly Phe Leu Asp Val Val Ala Ala Leu Arg Trp Val Gln
                200                 205                 210
Glu Asn Ile Ala Pro Phe Gly Gly Asp Leu Asn Cys Val Thr Val
                215                 220                 225
Phe Gly Gly Ser Ala Gly Gly Ser Ile Ile Ser Gly Leu Val Leu
                230                 235                 240
Ser Pro Val Ala Ala Gly Leu Phe His Arg Ala Ile Thr Gln Ser
                245                 250                 255
Gly Val Ile Thr Thr Pro Gly Ile Ile Asp Ser His Pro Trp Pro
                260                 265                 270
Leu Ala Gln Lys Ile Ala Asn Thr Leu Ala Cys Ser Ser Ser Ser
                275                 280                 285
Pro Ala Glu Met Val Gln Cys Leu Gln Gln Lys Glu Gly Glu Glu
                290                 295                 300
Leu Val Leu Ser Lys Lys Leu Lys Asn Thr Ile Tyr Pro Leu Thr
                305                 310                 315
Val Asp Gly Thr Val Phe Pro Lys Ser Pro Lys Glu Leu Leu Lys
                320                 325                 330
Glu Lys Pro Phe His Ser Val Pro Phe Leu Met Gly Val Asn Asn
                335                 340                 345
His Glu Phe Ser Trp Leu Ile Pro Arg Gly Trp Gly Leu Leu Asp
                350                 355                 360
Thr Met Glu Gln Met Ser Arg Glu Asp Met Leu Ala Ile Ser Thr
                365                 370                 375
Pro Val Leu Thr Ser Leu Asp Val Pro Pro Glu Met Met Pro Thr
                380                 385                 390
Val Ile Asp Glu Tyr Leu Gly Ser Asn Ser Asp Ala Gln Ala Lys
                395                 400                 405
Cys Gln Ala Phe Gln Glu Phe Met Gly Asp Val Phe Ile Asn Val
                410                 415                 420
Pro Thr Val Ser Phe Ser Arg Tyr Leu Arg Asp Ser Gly Ser Pro
                425                 430                 435
Val Phe Phe Tyr Glu Phe Gln His Arg Pro Ser Ser Phe Ala Lys
                440                 445                 450
Ile Lys Pro Ala Trp Val Lys Ala Asp His Gly Ala Glu Gly Ala
```

```
                455                 460                 465
Phe Val Phe Gly Gly Pro Phe Leu Met Asp Glu Ser Ser Arg Leu
                470                 475                 480
Ala Phe Pro Glu Ala Thr Glu Glu Glu Lys Gln Leu Ser Leu Thr
                485                 490                 495
Met Met Ala Gln Trp Thr His Phe Ala Arg Thr Gly Asp Pro Asn
                500                 505                 510
Ser Lys Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala Glu Gln
                515                 520                 525
Tyr Leu Glu Ile Asn Pro Val Pro Arg Ala Gly Gln Lys Phe Arg
                530                 535                 540
Glu Ala Trp Met Gln Phe Trp Ser Glu Thr Leu Pro Ser Lys Ile
                545                 550                 555
Gln Gln Trp His Gln Lys Gln Lys Asn Arg Lys Ala Gln Glu Asp
                560                 565                 570
Leu
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<210> 6
<211> 347
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1859618CD1

<400> 6

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Met Ser Ser Trp Ser Arg Gln Arg Pro Lys Ser Pro Gly Gly Ile
  1               5                  10                  15
Gln Pro His Val Ser Arg Thr Leu Phe Leu Leu Leu Leu Leu Ala
                20                  25                  30
Ala Ser Ala Trp Gly Val Thr Leu Ser Pro Lys Asp Cys Gln Val
                35                  40                  45
Phe Arg Ser Asp His Gly Ser Ser Ile Ser Cys Gln Pro Pro Ala
                50                  55                  60
Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr Val His Leu Ala Val
                65                  70                  75
Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn Leu Leu Gln Gly
                80                  85                  90
Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn Gly Leu Glu
                95                 100                 105
Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu Arg Val
               110                 115                 120
Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly Leu
               125                 130                 135
Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn
               140                 145                 150
Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys Ala
               155                 160                 165
Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu Pro
               170                 175                 180
Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu
               185                 190                 195
Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly
```

```
                200                 205                 210
Pro Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln
                215                 220                 225
Val Leu Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr
                230                 235                 240
Leu Phe Leu Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala
                245                 250                 255
Phe Gln Gly Leu Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn
                260                 265                 270
Ser Leu Ala Ser Val Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln
                275                 280                 285
Pro Asn Trp Asp Met Arg Asp Gly Phe Asp Ile Ser Gly Asn Pro
                290                 295                 300
Trp Ile Cys Asp Gln Asn Leu Ser Asp Leu Tyr Arg Trp Leu Gln
                305                 310                 315
Ala Gln Lys Asp Lys Met Phe Ser Gln Asn Asp Thr Arg Cys Ala
                320                 325                 330
Gly Pro Glu Ala Val Lys Gly Gln Thr Leu Leu Ala Val Ala Lys
                335                 340                 345
Ser Gln
```

<210> 7
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2011071CD1

<400> 7

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Met Gln Asp Ala Pro Leu Ser Cys Leu Ser Pro Thr Arg Trp Ser
  1               5                  10                  15
Ser Val Ser Ser Ala Asp Ser Thr Glu Lys Ser Ala Ser Gly Ala
                 20                  25                  30
Gly Thr Arg Asn Leu Pro Phe Gln Phe Cys Leu Arg Gln Ala Leu
                 35                  40                  45
Arg Met Lys Ala Ala Gly Ile Leu Thr Leu Ile Gly Cys Leu Val
                 50                  55                  60
Thr Gly Ala Glu Ser Lys Ile Tyr Thr Arg Cys Lys Leu Ala Lys
                 65                  70                  75
Ile Phe Ser Arg Ala Gly Leu Asp Asn Tyr Trp Gly Phe Ser Leu
                 80                  85                  90
Gly Asn Trp Ile Cys Met Ala Tyr Tyr Glu Ser Gly Tyr Asn Thr
                 95                 100                 105
Thr Ala Pro Thr Val Leu Asp Asp Gly Ser Ile Asp Tyr Gly Ile
                110                 115                 120
Phe Gln Ile Asn Thr Phe Ala Trp Cys Arg Arg Gly Lys Leu Lys
                125                 130                 135
Glu Asn Asn His Cys His Val Ala Cys Ser Ala Leu Ile Thr Asp
                140                 145                 150
Asp Leu Thr Asp Ala Ile Ile Cys Ala Arg Lys Ile Val Lys Glu
                155                 160                 165
Thr Gln Gly Met Asn Tyr Trp Gln Gly Trp Lys Lys His Cys Glu
```

```
                170                 175                 180
Gly Arg Asp Leu Ser Glu Trp Lys Lys Gly Cys Glu Val Ser
                185                 190


<210> 8
<211> 361
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2186517CD1

<400> 8
Met Ala Trp Gln Gly Trp Pro Ala Ala Trp Gln Trp Val Ala Gly
  1               5                  10                  15
Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu Val Ser Pro
                20                  25                  30
Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu Met Ala
                35                  40                  45
His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr Thr
                50                  55                  60
Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg
                65                  70                  75
Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Thr Arg
                80                  85                  90
Leu Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp
                95                 100                 105
Asn Tyr Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val
               110                 115                 120
Ala Val Asp Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu
               125                 130                 135
Lys Glu Gly Val Thr Leu Val Ala Ile Leu Cys Thr His Lys His
               140                 145                 150
Trp Asp His Ser Gly Gly Asn Arg Asp Leu Ser Arg Arg His Arg
               155                 160                 165
Asp Cys Arg Val Tyr Gly Ser Pro Gln Asp Gly Ile Pro Tyr Leu
               170                 175                 180
Thr His Pro Leu Cys His Gln Asp Val Val Ser Val Gly Arg Leu
               185                 190                 195
Gln Ile Arg Ala Leu Ala Thr Pro Gly His Thr Gln Gly His Leu
               200                 205                 210
Val Tyr Leu Leu Asp Gly Glu Pro Tyr Lys Gly Pro Ser Cys Leu
               215                 220                 225
Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly Cys Gly Arg Thr Phe
               230                 235                 240
Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu Asp Thr Val Leu
               245                 250                 255
Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His Glu Tyr Ala
               260                 265                 270
Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu Asn Leu
               275                 280                 285
Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu Glu
               290                 295                 300
```

```
Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr
                305                 310                 315
Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu
                320                 325                 330
Gly Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala
                335                 340                 345
Gln Leu Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser
                350                 355                 360
Lys
```

<210> 9
<211> 306
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2253585CD1

<400> 9

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Met Leu Arg Trp Thr Arg Ala Trp Arg Leu Pro Arg Glu Gly Leu
  1                 5                  10                  15
Gly Pro His Gly Pro Ser Phe Ala Arg Val Pro Val Ala Pro Ser
                 20                  25                  30
Ser Ser Ser Gly Gly Arg Gly Gly Ala Glu Pro Arg Pro Leu Pro
                 35                  40                  45
Leu Ser Tyr Arg Leu Leu Asp Gly Glu Ala Ala Leu Pro Ala Val
                 50                  55                  60
Val Phe Leu His Gly Leu Phe Gly Ser Lys Thr Asn Phe Asn Ser
                 65                  70                  75
Ile Ala Lys Ile Leu Ala Gln Gln Thr Gly Arg Arg Val Leu Thr
                 80                  85                  90
Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro Asp Met
                 95                 100                 105
Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro Gln
                110                 115                 120
Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly
                125                 130                 135
Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu
                140                 145                 150
Arg Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val
                155                 160                 165
Ser His Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile
                170                 175                 180
Ala Asp Glu Leu Pro Arg Ser Arg Ala Arg Lys Leu Ala Asp Glu
                185                 190                 195
Gln Leu Ser Ser Val Ile Gln Asp Met Ala Val Arg Gln His Leu
                200                 205                 210
Leu Thr Asn Leu Val Glu Val Asp Gly Arg Phe Val Trp Arg Val
                215                 220                 225
Asn Leu Asp Ala Leu Thr Gln His Leu Asp Lys Ile Leu Ala Phe
                230                 235                 240
Pro Gln Arg Gln Glu Ser Tyr Leu Gly Pro Thr Leu Phe Leu Leu
                245                 250                 255
```

```
Gly Gly Asn Ser Gln Phe Val His Pro Ser His His Pro Glu Ile
                260                 265                 270
Met Arg Leu Phe Pro Arg Ala Gln Met Gln Thr Val Pro Asn Ala
                275                 280                 285
Gly His Trp Ile His Ala Asp Arg Pro Gln Asp Phe Ile Ala Ala
                290                 295                 300
Ile Arg Gly Phe Leu Val
                305
```

<210> 10
<211> 483
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2447520CD1

<400> 10

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Met Ser Asn Lys Leu Leu Ser Pro His Pro His Ser Val Val Leu
  1               5                  10                  15
Arg Ser Glu Phe Lys Met Ala Ser Ser Pro Ala Val Leu Arg Ala
                20                  25                  30
Ser Arg Leu Tyr Gln Trp Ser Leu Lys Ser Ser Ala Gln Phe Leu
                35                  40                  45
Gly Ser Pro Gln Leu Arg Gln Val Gly Gln Ile Ile Arg Val Pro
                50                  55                  60
Ala Arg Met Ala Ala Thr Leu Ile Leu Glu Pro Ala Gly Arg Cys
                65                  70                  75
Cys Trp Asp Glu Pro Val Arg Ile Ala Val Arg Gly Leu Ala Pro
                80                  85                  90
Glu Gln Pro Val Thr Leu Arg Ala Ser Leu Arg Asp Glu Lys Gly
                95                 100                 105
Ala Leu Phe Gln Ala His Ala Arg Tyr Arg Ala Asp Thr Leu Gly
               110                 115                 120
Glu Leu Asp Leu Glu Arg Ala Pro Ala Leu Gly Gly Ser Phe Ala
               125                 130                 135
Gly Leu Glu Pro Met Gly Leu Leu Trp Ala Leu Glu Pro Glu Lys
               140                 145                 150
Pro Leu Val Arg Leu Val Lys Arg Asp Val Arg Thr Pro Leu Ala
               155                 160                 165
Val Glu Leu Glu Val Leu Asp Gly His Asp Pro Asp Pro Gly Arg
               170                 175                 180
Leu Leu Cys Gln Thr Arg His Glu Arg Tyr Phe Leu Pro Pro Gly
               185                 190                 195
Val Arg Arg Glu Pro Val Arg Val Gly Arg Val Arg Gly Thr Leu
               200                 205                 210
Phe Leu Pro Pro Glu Pro Gly Pro Phe Pro Gly Ile Val Asp Met
               215                 220                 225
Phe Gly Thr Gly Gly Gly Leu Leu Glu Tyr Arg Ala Ser Leu Leu
               230                 235                 240
Ala Gly Lys Gly Phe Ala Val Met Ala Leu Ala Tyr Tyr Asn Tyr
               245                 250                 255
Glu Asp Leu Pro Lys Thr Met Glu Thr Leu His Leu Glu Tyr Phe
```

```
                260                 265                 270
Glu Glu Ala Met Asn Tyr Leu Leu Ser His Pro Glu Val Lys Gly
                275                 280                 285
Pro Gly Val Gly Leu Leu Gly Ile Ser Lys Gly Gly Glu Leu Cys
                290                 295                 300
Leu Ser Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Ala Val Val
                305                 310                 315
Ile Asn Gly Ser Val Ala Asn Val Gly Gly Thr Leu Arg Tyr Lys
                320                 325                 330
Gly Glu Thr Leu Pro Pro Val Gly Val Asn Arg Asn Arg Ile Lys
                335                 340                 345
Val Thr Lys Asp Gly Tyr Ala Asp Ile Val Asp Val Leu Asn Ser
                350                 355                 360
Pro Leu Glu Gly Pro Asp Gln Lys Ser Phe Ile Pro Val Glu Arg
                365                 370                 375
Ala Glu Ser Thr Phe Leu Phe Leu Val Gly Gln Asp Asp His Asn
                380                 385                 390
Trp Lys Ser Glu Phe Tyr Ala Asn Glu Ala Cys Lys Arg Leu Gln
                395                 400                 405
Ala His Gly Arg Arg Lys Pro Gln Ile Ile Cys Tyr Pro Glu Thr
                410                 415                 420
Gly His Tyr Ile Glu Pro Pro Tyr Phe Pro Leu Cys Arg Ala Ser
                425                 430                 435
Leu His Ala Leu Val Gly Ser Pro Ile Ile Trp Gly Gly Glu Pro
                440                 445                 450
Arg Ala His Ala Met Ala Gln Val Asp Ala Trp Lys Gln Leu Gln
                455                 460                 465
Thr Phe Phe His Lys His Leu Gly Gly His Glu Gly Thr Ile Pro
                470                 475                 480
Ser Lys Val
```

<210> 11
<211> 144
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2481345CD1

<400> 11

```
Met Leu Leu Leu Trp Val Ser Val Val Ala Ala Leu Ala Leu Ala
  1               5                  10                  15
Val Leu Ala Pro Gly Ala Gly Glu Gln Arg Arg Arg Ala Ala Lys
                20                  25                  30
Ala Pro Asn Val Val Leu Val Val Ser Asp Ser Phe Asp Gly Arg
                35                  40                  45
Leu Thr Phe His Pro Gly Ser Gln Val Val Lys Leu Pro Phe Ile
                50                  55                  60
Asn Phe Met Lys Thr Arg Gly Thr Ser Phe Leu Asn Ala Tyr Thr
                65                  70                  75
Asn Ser Pro Ile Cys Cys Pro Ser Arg Ala Ala Met Trp Ser Gly
                80                  85                  90
Leu Phe Thr His Leu Thr Glu Ser Trp Asn Asn Phe Lys Gly Leu
```

```
                 95                  100                 105
Asp Pro Asn Tyr Thr Thr Trp Met Asp Val Met Glu Arg His Gly
                110                 115                 120
Tyr Arg Thr Gln Lys Phe Gly Lys Leu Asp Tyr Thr Ser Gly His
                125                 130                 135
His Ser Ile Ser Asn Arg Val Glu Ala
                140
```

<210> 12
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2484020CD1

<400> 12

```
Met Met Lys Phe Lys Pro Asn Gln Thr Arg Thr Tyr Asp Arg Glu
  1               5                  10                  15
Gly Phe Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Gln
                20                  25                  30
Glu Asp Glu Val Leu Leu Val Ser Ser Ser Arg Tyr Pro Asp Gln
                35                  40                  45
Trp Ile Val Pro Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Gly
                50                  55                  60
Gly Ala Ala Val Arg Glu Val Tyr Glu Glu Ala Gly Val Lys Gly
                65                  70                  75
Lys Leu Gly Arg Leu Leu Gly Ile Phe Glu Asn Gln Asp Arg Lys
                80                  85                  90
His Arg Thr Tyr Val Tyr Val Leu Thr Val Thr Glu Ile Leu Glu
                95                 100                 105
Asp Trp Glu Asp Ser Val Asn Ile Gly Arg Lys Arg Glu Trp Phe
               110                 115                 120
Lys Val Glu Asp Ala Ile Lys Val Leu Gln Cys His Lys Pro Val
               125                 130                 135
His Ala Glu Tyr Leu Glu Lys Leu Lys Leu Gly Cys Ser Pro Ala
               140                 145                 150
Asn Gly Asn Ser Thr Val Pro Ser Leu Pro Asp Asn Asn Ala Leu
               155                 160                 165
Phe Val Thr Ala Ala Gln Thr Ser Gly Leu Pro Ser Ser Val Arg
               170                 175                 180
```

<210> 13
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2862528CD1

<400> 13

```
Met Ala Arg Pro Gly Leu Ile His Ser Ala Pro Gly Leu Pro Asp
  1               5                  10                  15
Thr Cys Ala Leu Leu Gln Pro Pro Ala Ala Ser Ala Ala Ala Ala
                 20                  25                  30
Pro Ser Met Ser Gly Pro Asp Val Glu Thr Pro Ser Ala Ile Gln
                 35                  40                  45
Ile Cys Arg Ile Met Arg Pro Asp Asp Ala Asn Val Ala Gly Asn
                 50                  55                  60
Val His Gly Gly Thr Ile Leu Lys Met Ile Glu Glu Ala Gly Ala
                 65                  70                  75
Ile Ile Ser Thr Arg His Cys Asn Ser Gln Asn Gly Glu Arg Cys
                 80                  85                  90
Val Ala Ala Leu Ala Arg Val Glu Arg Thr Asp Phe Leu Ser Pro
                 95                 100                 105
Met Cys Ile Gly Glu Val Ala His Val Ser Ala Glu Ile Thr Tyr
                110                 115                 120
Thr Ser Lys His Ser Val Glu Val Gln Val Asn Val Met Ser Glu
                125                 130                 135
Asn Ile Leu Thr Gly Ala Lys Lys Leu Thr Asn Lys Ala Thr Leu
                140                 145                 150
Trp Tyr Val Pro Leu Ser Leu Lys Asn Val Asp Lys Val Leu Glu
                155                 160                 165
Val Pro Pro Val Val Tyr Ser Arg Gln Glu Gln Glu Glu Glu Gly
                170                 175                 180
Arg Lys Arg Tyr Glu Ala Gln Lys Leu Glu Arg Met Glu Thr Lys
                185                 190                 195
Trp Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro Gly Val
                200                 205                 210
Thr Met Lys Leu Met Asp Glu Val Ala Gly Ile Val Ala Ala Arg
                215                 220                 225
His Cys Lys Thr Asn Ile Val Thr Ala Ser Val Asp Ala Ile Asn
                230                 235                 240
Phe His Asp Lys Ile Arg Lys Gly Cys Val Ile Thr Ile Ser Gly
                245                 250                 255
Arg Met Thr Phe Thr Ser Asn Lys Ser Met Glu Ile Glu Val Leu
                260                 265                 270
Val Asp Ala Asp Pro Val Val Asp Ser Ser Gln Lys Arg Tyr Arg
                275                 280                 285
Ala Ala Ser Ala Phe Phe Thr Tyr Val Ser Leu Ser Gln Glu Gly
                290                 295                 300
Arg Ser Leu Pro Val Pro Gln Leu Val Pro Glu Thr Glu Asp Glu
                305                 310                 315
Lys Lys Arg Phe Glu Glu Gly Lys Gly Arg Tyr Leu Gln Met Lys
                320                 325                 330
Ala Asn Asp Arg Ala Thr Arg Ser Leu Ser Pro Arg Leu Pro Pro
                335                 340                 345
Pro Ala Thr Gly Ala Ser Ser Ser His Gly Asn Gly Pro Ser Val
                350                 355                 360
Gln Ser Leu Arg Ser Ser Pro Leu Gly Gln Lys Pro Asn Ser His
                365                 370                 375
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<210> 14
<211> 637

<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3200650CD1

<400> 14

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Leu Leu Leu Leu Val Val Leu Gly Phe Leu Val Leu Arg Arg Leu
             20                  25                  30
Asp Trp Ser Thr Leu Val Pro Leu Arg Leu Arg His Arg Gln Leu
             35                  40                  45
Gly Leu Gln Ala Lys Gly Trp Asn Phe Met Leu Glu Asp Ser Thr
             50                  55                  60
Phe Trp Ile Phe Gly Gly Ser Ile His Tyr Phe Arg Val Pro Arg
             65                  70                  75
Glu Tyr Trp Arg Asp Arg Leu Leu Lys Met Lys Ala Cys Gly Leu
             80                  85                  90
Asn Thr Leu Thr Thr Tyr Val Pro Trp Asn Leu His Glu Pro Glu
             95                 100                 105
Arg Gly Lys Phe Asp Phe Leu Trp Glu Thr Trp Thr Leu Lys Ala
            110                 115                 120
Phe Val Leu Met Ala Ala Glu Ile Gly Leu Trp Val Ile Leu Arg
            125                 130                 135
Pro Gly Pro Tyr Ile Cys Ser Glu Met Asp Leu Gly Gly Leu Pro
            140                 145                 150
Ser Trp Leu Leu Gln Asp Pro Gly Met Arg Leu Arg Thr Thr Tyr
            155                 160                 165
Lys Gly Phe Thr Glu Ala Val Asp Leu Tyr Phe Asp His Leu Met
            170                 175                 180
Ser Arg Val Val Pro Leu Gln Tyr Lys Arg Gly Gly Pro Ile Ile
            185                 190                 195
Ala Val Gln Val Glu Asn Glu Tyr Gly Ser Tyr Asn Lys Asp Pro
            200                 205                 210
Ala Tyr Met Pro Tyr Val Lys Lys Ala Leu Glu Asp Arg Gly Ile
            215                 220                 225
Val Glu Leu Leu Leu Thr Ser Asp Asn Lys Asp Gly Leu Ser Lys
            230                 235                 240
Gly Ile Val Gln Gly Val Leu Ala Thr Ile Asn Leu Gln Ser Thr
            245                 250                 255
His Glu Leu Gln Leu Leu Thr Thr Phe Leu Phe Asn Val Gln Gly
            260                 265                 270
Thr Gln Pro Lys Met Val Met Glu Tyr Trp Thr Gly Trp Phe Asp
            275                 280                 285
Ser Trp Gly Gly Pro His Asn Ile Leu Asp Ser Ser Glu Val Leu
            290                 295                 300
Lys Thr Val Ser Ala Ile Val Asp Ala Gly Ser Ser Ile Asn Leu
            305                 310                 315
Tyr Met Phe His Gly Gly Thr Asn Phe Gly Phe Met Asn Gly Ala
            320                 325                 330
Met His Phe His Asp Tyr Lys Ser Asp Val Thr Ser Tyr Asp Tyr
            335                 340                 345
Asp Ala Val Leu Thr Glu Ala Gly Asp Tyr Thr Ala Lys Tyr Met
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                350                 355                 360
Lys Leu Arg Asp Phe Phe Gly Ser Ile Ser Gly Ile Pro Leu Pro
                365                 370                 375
Pro Pro Pro Asp Leu Leu Pro Lys Met Pro Tyr Glu Pro Leu Thr
                380                 385                 390
Pro Val Leu Tyr Leu Ser Leu Trp Asp Ala Leu Lys Tyr Leu Gly
                395                 400                 405
Glu Pro Ile Lys Ser Glu Lys Pro Ile Asn Met Glu Asn Leu Pro
                410                 415                 420
Val Asn Gly Gly Asn Gly Gln Ser Phe Gly Tyr Ile Leu Tyr Glu
                425                 430                 435
Thr Ser Ile Thr Ser Ser Gly Ile Leu Ser Gly His Val His Asp
                440                 445                 450
Arg Gly Gln Val Phe Val Asn Thr Val Ser Ile Gly Phe Leu Asp
                455                 460                 465
Tyr Lys Thr Thr Lys Ile Ala Val Pro Leu Ile Gln Gly Tyr Thr
                470                 475                 480
Val Leu Arg Ile Leu Val Glu Asn Arg Gly Arg Val Asn Tyr Gly
                485                 490                 495
Glu Asn Ile Asp Asp Gln Arg Lys Gly Leu Ile Gly Asn Leu Tyr
                500                 505                 510
Leu Asn Asp Ser Pro Leu Lys Asn Phe Arg Ile Tyr Ser Leu Asp
                515                 520                 525
Met Lys Lys Ser Phe Phe Gln Arg Phe Gly Leu Asp Lys Trp Ser
                530                 535                 540
Ser Leu Pro Glu Thr Pro Thr Leu Pro Ala Phe Phe Leu Gly Ser
                545                 550                 555
Leu Ser Ile Ser Ser Thr Pro Cys Asp Thr Phe Leu Lys Leu Glu
                560                 565                 570
Gly Trp Glu Lys Gly Val Val Phe Ile Asn Gly Gln Asn Leu Gly
                575                 580                 585
Arg Tyr Trp Asn Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly
                590                 595                 600
Pro Trp Leu Ser Ser Gly Ile Asn Gln Val Ile Val Phe Glu Glu
                605                 610                 615
Thr Met Ala Gly Pro Ala Leu Gln Phe Thr Glu Thr Pro His Leu
                620                 625                 630
Gly Arg Asn Gln Tyr Ile Lys
                635
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<210> 15
<211> 314
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4107621CD1

<400> 15

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Ala Val Pro Trp Gly His Ile Ala Ala Lys Ala Trp Gly Ser Leu
                 20                  25                  30
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Gln Gly Pro Pro Val Leu Cys Leu His Gly Trp Leu Asp Asn Ala
                35                  40                  45
Ser Ser Phe Asp Arg Leu Ile Pro Leu Leu Pro Gln Asp Phe Tyr
                50                  55                  60
Tyr Val Ala Met Asp Phe Gly Gly His Gly Leu Ser Ser His Tyr
                65                  70                  75
Ser Pro Gly Val Pro Tyr Tyr Leu Gln Thr Phe Val Ser Glu Ile
                80                  85                  90
Arg Arg Val Val Ala Ala Leu Lys Trp Asn Arg Phe Ser Ile Leu
                95                 100                 105
Gly His Ser Phe Gly Gly Val Val Gly Gly Met Phe Phe Cys Thr
               110                 115                 120
Phe Pro Glu Met Val Asp Lys Leu Ile Leu Leu Asp Thr Pro Leu
               125                 130                 135
Phe Leu Leu Glu Ser Asp Glu Met Glu Asn Leu Leu Thr Tyr Lys
               140                 145                 150
Arg Arg Ala Ile Glu His Val Leu Gln Val Glu Ala Ser Gln Glu
               155                 160                 165
Pro Ser His Val Phe Ser Leu Lys Gln Leu Leu Gln Arg Leu Leu
               170                 175                 180
Lys Ser Asn Ser His Leu Ser Glu Glu Cys Gly Glu Leu Leu Leu
               185                 190                 195
Gln Arg Gly Thr Thr Lys Val Ala Thr Gly Leu Val Leu Asn Arg
               200                 205                 210
Asp Gln Arg Leu Ala Trp Ala Glu Asn Ser Ile Asp Phe Ile Ser
               215                 220                 225
Arg Glu Leu Cys Ala His Ser Ile Arg Lys Leu Gln Ala His Val
               230                 235                 240
Leu Leu Ile Lys Ala Val His Gly Tyr Phe Asp Ser Arg Gln Asn
               245                 250                 255
Tyr Ser Glu Lys Glu Ser Leu Ser Phe Met Ile Asp Thr Met Lys
               260                 265                 270
Ser Thr Leu Lys Glu Gln Phe Gln Phe Val Glu Val Pro Gly Asn
               275                 280                 285
His Cys Val His Met Ser Glu Pro Gln His Val Ala Ser Ile Ile
               290                 295                 300
Ser Ser Phe Leu Gln Cys Thr His Met Leu Pro Ala Gln Leu
               305                 310
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<210> 16
<211> 448
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4661133CD1

<400> 16

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Met Arg Arg Ala Ala Leu Arg Leu Cys Ala Leu Gly Lys Gly Gln
  1               5                  10                  15
Leu Thr Pro Gly Arg Gly Leu Thr Gln Gly Pro Gln Asn Pro Lys
                20                  25                  30
Lys Gln Gly Ile Phe His Ile His Glu Ala Cys Ser Ser Ile His
```

```
                35                  40                  45
Val Asn His Val Arg Asp Lys Leu Arg Glu Ile Val Gly Ala Ser
                50                  55                  60
Thr Asn Trp Arg Asp His Val Lys Ala Met Glu Glu Arg Lys Leu
                65                  70                  75
Leu His Ser Phe Leu Ala Lys Ser Gln Asp Gly Leu Pro Pro Arg
                80                  85                  90
Arg Met Lys Asp Ser Tyr Ile Glu Val Leu Leu Pro Leu Gly Ser
                95                 100                 105
Glu Pro Glu Leu Arg Glu Lys Tyr Leu Thr Val Gln Asn Thr Val
               110                 115                 120
Arg Phe Gly Arg Ile Leu Glu Asp Leu Asp Ser Leu Gly Val Leu
               125                 130                 135
Ile Cys Tyr Met His Asn Lys Ile His Ser Ala Lys Met Ser Pro
               140                 145                 150
Leu Ser Ile Val Thr Ala Leu Val Asp Lys Ile Asp Met Cys Lys
               155                 160                 165
Lys Ser Leu Ser Pro Glu Gln Asp Ile Lys Phe Ser Gly His Val
               170                 175                 180
Ser Trp Val Gly Lys Thr Ser Met Glu Val Lys Met Gln Met Phe
               185                 190                 195
Gln Leu His Gly Asp Glu Phe Cys Pro Val Leu Asp Ala Thr Phe
               200                 205                 210
Val Met Val Ala Arg Asp Ser Glu Asn Lys Gly Pro Ala Phe Val
               215                 220                 225
Asn Pro Leu Ile Pro Glu Ser Pro Glu Glu Glu Glu Leu Phe Arg
               230                 235                 240
Gln Gly Glu Leu Asn Lys Gly Arg Arg Ile Ala Phe Ser Ser Thr
               245                 250                 255
Ser Leu Leu Lys Met Ala Pro Ser Ala Glu Glu Arg Thr Thr Ile
               260                 265                 270
His Glu Met Phe Leu Ser Thr Leu Asp Pro Lys Thr Ile Ser Phe
               275                 280                 285
Arg Ser Arg Val Leu Pro Ser Asn Ala Val Trp Met Glu Asn Ser
               290                 295                 300
Lys Leu Lys Ser Leu Glu Ile Cys His Pro Gln Glu Arg Asn Ile
               305                 310                 315
Phe Asn Arg Ile Phe Gly Gly Phe Leu Met Arg Lys Ala Tyr Glu
               320                 325                 330
Leu Ala Trp Ala Thr Ala Cys Ser Phe Gly Gly Ser Arg Pro Phe
               335                 340                 345
Val Val Ala Val Asp Asp Ile Met Phe Gln Lys Pro Val Glu Val
               350                 355                 360
Gly Ser Leu Leu Phe Leu Ser Ser Gln Val Cys Phe Thr Gln Asn
               365                 370                 375
Asn Tyr Ile Gln Val Arg Val His Ser Glu Val Ala Ser Leu Gln
               380                 385                 390
Glu Lys Gln His Thr Thr Thr Asn Val Phe His Phe Thr Phe Met
               395                 400                 405
Ser Glu Lys Glu Val Pro Leu Val Phe Pro Lys Thr Tyr Gly Glu
               410                 415                 420
Ser Met Leu Tyr Leu Asp Gly Gln Arg His Phe Asn Ser Met Ser
               425                 430                 435
Gly Pro Ala Thr Leu Arg Lys Asp Tyr Leu Val Glu Pro
               440                 445
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<210> 17
<211> 723
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2293764CB1

<400> 17
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agggtgagtc tggagcaagt cacctgggag ggcttacagg tgccataatg aaggcctggg 180
gcactgtggt agtgaccttg gccacgctga tggttgtcac tgtggatgcc aagatctatg 240
aactctgcga gctggcggca agactggaga gagcagggct gaacggctac aagggctacg 300
gcgttggaga ctggctgtgc atggctcatt atgagagtgg ctttgacacc gccttcgtgg 360
accacaatcc tgatggcagc agtgaatatg gcattttcca actgaattct gcctggtggt 420
gtgacaatgg cattacaccc accaagaacc tctgccacat ggattgtcat gacctgctca 480
atcgccatat tctggatgac atcaggtgtg ccaagcagat tgtgtcctca cagaatgggc 540
tttctgcctg gacttcttgg aggctacact gttctggcca tgatttatct gaatggctca 600
aggggtgtga catgcatgtg aaaattgatc caaaaattca tccatgactc agattcgaag 660
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gtc 723

<210> 18
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 949738CB1

<400> 18
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ctccaccaac tctgtcctcg gggggggtggg gccccagccg agatcacagc gcgacaggag 180
tgggggtggc cgctggagac aggtgaagaa acaagaaaac taagaaatcc gagcggttgg 240
agggggagtc tgtgtggatg ggatggggac gccgggggag gggctgggcc gctgctccca 300
tgccctgatc cggggagtcc cagagagcct ggcgtcgggg gaaggtgcgg gggctggcct 360
tcccgctctg gatctggcca aagctcaaag ggagcacggg gtgctgggag gtaaactgag 420
gcaacgactg gggctacagc tgctagaact gccacctgag gagtcattgc cgctgggacc 480
gctgcttggc gacacggccg tgatccaagg ggacacggcc ctaatcacgc ggccctggag 540
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aattgtggaa ataggagacg agaacgcgac gctggatggc actgacgttc tcttcaccgg 660
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cctcctgcac cgtggaggtg gggatctgcc caacagccag gaggcactgc agaagctctc 1020
tgatgtcacc ctggtacctg tgtcctgctc agaactggag aaggccggcg ccgggctcag 1080
ctccctctgc ttggtgctca gcacacgccc ccacagctga gggcctggcc ttggggtact 1140

gctggccagg ggtaggatag tataggaagt agaaggggaa ggagggttag atagagaatg 1200
ctgaataggc agtagttggg agagaggg 1228

<210> 19
<211> 2155
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1297034CB1

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tttctccttc ctgctgctag tgctgctgct ggtgacgcgg agcccggtca atgcctgcct 180
cctcaccggc agcctcttcg ttctactgcg cgtcttcagc tttgagccgg tgccctcttg 240
cagggccctg caggtgctca agccccggga ccgcatttct gccatcgccc accgtggcgg 300
cagccacgac gcgcccgaga acacgctggc ggccattcgg caggcagcta agaatggagc 360
aacaggcgtg gagttggaca ttgagtttac ttctgacggg attcctgtct taatgcacga 420
taacacagta gataggacga ctgatgggac tgggcgattg tgtgatttga catttgaaca 480
aattaggaag ctgaatcctg cagcaaacca cagactcagg aatgatttcc ctgatgaaaa 540
gatccctacc ctaagggaag ctgttgcaga gtgcctaaac cataacctca caatcttctt 600
tgatgtcaaa ggccatgcac acaaggctac tgaggctcta aagaaaatgt atatggaatt 660
tcctcaactg tataataata gtgtggtctg ttctttcttg ccagaagtta tctacaagat 720
gagacaaaca gatcgggatg taataacagc attaactcac agaccttgga gcctaagcca 780
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gtgtgccaag catcatatcc taaggcatac ggaatttggg gaagccacca tgcaatccag 1620
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tccaaaaata tctaggtttg tcctcatttt acaaatgagg aaactaaact ctgtggaagg 1860
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<210> 20
<211> 491
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1553276CB1

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gtgctacagt ggctgctgcc tcatggactt ggactccggt ggagccttct gtgcccccag 180
ggccagaata accatgatct gcttgcccca gtggttggaa ctcttcaagg gcagggattg 240
catcatattc atctatgaag cacctacccc cagcttagta tctgcacata accaagggag 300
ctaccaacat catctgccct tgccggatgg gcttgacgtg catatccaag gacttgatgt 360
gttcccgccg gtgccatatg atttagagga agatgcaggc tggtcactgc tcccttgggg 420
ccataggccc tggttgccac caacttgctc caaatccagc tcctgagaca ttaaagtcac 480
ttcctgtcaa a 491

<210> 21
<211> 2101
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1702211CB1

<400> 21
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ggcccgaagt tgctcagcct gaagtagaca ccaccctggg tcgtgtgcga ggccggcagg 180
tgggcgtgaa gggcacagac cgccttgtga atgtctttct gggcattcca tttgcccagc 240
cgccactggg ccctgaccgg ttctcagccc cacacccagc acagccctgg gagggtgtgc 300
gggatgccag cactgcgccc ccaatgtgcc tacaagacgt ggagagcatg aacagcagca 360
gatttgtcct caacggaaaa cagcagatct tctccgtttc agaggactgc ctggtcctca 420
acgtctatag cccagctgag gtccccgcag ggtccggtag gccggtcatg gtatgggtcc 480
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tttcttcgtg gtaggttcta gcacattcct ctagcttcct ggaggactca ctcccccagg 2040
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<210> 22
<211> 1834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1859618CB1

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accccatgtt tctagaactc tgttcctgct gctgctgttg gcagcctcag cctgggggt 180
caccctgagc cccaaagact gccaggtgtt ccgctcagac catggcagct ccatctcctg 240
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<212> PRT
<213> Colobus guereza

<300>
<308> GenBank ID No: g1790927

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Val Gln Gly Lys Ile Phe Glu Arg Cys Glu Leu Ala Arg Thr Leu

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly Val Ser Leu Ala Asn
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Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Asp Ala
                  50                  55                  60
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe
                  65                  70                  75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly
                  80                  85                  90
Ala Val Asn Ala Cys His Ile Ser Cys Asn Ala Leu Leu Gln Asn
                  95                 100                 105
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp
                 110                 115                 120
Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Lys Lys His Cys Gln
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<300>
<308> GenBank ID No: g1790967

<400> 34

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly Val Ser Leu Ala Asn
                  35                  40                  45
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Asp Ala
                  50                  55                  60
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe
                  65                  70                  75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly
                  80                  85                  90
Ala Val Asn Ala Cys His Ile Ser Cys Asn Ala Leu Leu Gln Asn
                  95                 100                 105
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp
                 110                 115                 120
Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Lys Lys His Cys Gln
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<211> 148
<212> PRT
<213> Nasalis larvatus

<300> misc_feature
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<400> 35

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Lys Lys Leu Gly Leu Asp Gly Tyr Lys Gly Val Ser Leu Ala Asn
             35                  40                  45
Trp Val Cys Leu Ala Lys Trp Glu Ser Gly Tyr Asn Thr Glu Ala
             50                  55                  60
Thr Asn Tyr Asn Pro Gly Asp Glu Ser Thr Asp Tyr Gly Ile Phe
             65                  70                  75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asn Gly Lys Thr Pro Gly
             80                  85                  90
Ala Val Asp Ala Cys His Ile Ser Cys Ser Ala Leu Leu Gln Asn
             95                 100                 105
Asn Ile Ala Asp Ala Val Ala Cys Ala Lys Arg Val Val Ser Asp
            110                 115                 120
Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Arg Asn His Cys Gln
            125                 130                 135
Asn Arg Asp Val Ser Gln Tyr Val Lys Gly Cys Gly Val
            140                 145
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